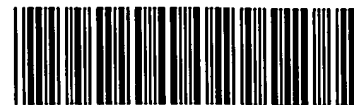


RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/562,843
Source: IFWO
Date Processed by STIC: 05/19/2006

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 05/19/2006

PATENT APPLICATION: US/10/562,843

TIME: 12:07:19

Input Set : A:\138-05 Seq Listing.txt

Output Set: N:\CRF4\05192006\J562843.raw

3 <110> APPLICANT: Alphey, Luke
 6 <120> TITLE OF INVENTION: STABLE INTEGRANDS
 8 <130> FILE REFERENCE: 138-05
 10 <140> CURRENT APPLICATION NUMBER: 10/562,843
 11 <141> CURRENT FILING DATE: 2005-12-28
 13 <150> PRIOR APPLICATION NUMBER: PCT/GB04/02869
 14 <151> PRIOR FILING DATE: 2004-07-01
 16 <150> PRIOR APPLICATION NUMBER: UK 0315379.8
 17 <151> PRIOR FILING DATE: 2003-07-01
 19 <160> NUMBER OF SEQ ID NOS: 20
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 12
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Synthetic
 31 <400> SEQUENCE: 1
 32 ttaattaatt aa 12
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 12
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Artificial sequence
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: Synthetic
 44 <400> SEQUENCE: 2
 45 ttaactagtt aa 12
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 16157
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Artificial sequence
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: Synthetic Construct Predicted sequence of pLA1025 construct
 58 <400> SEQUENCE: 3
 59 gggcaattcg ggcgcgcttc ttaattaagg cccccctcg agaccatggt cgatcgacaa 60
 61 acacgaaaat acattcctgg acagacctag gggtttgctc ttttttcttt gcaggatctg 120
 63 gattcaacaa agaaggaaaa atctacggag tttggaacct catttattgc acgaagaaac 180
 65 ttagagagaa agactgatgc ctaataaaga ctcaagctga ttgcaaaaac aatataaaagt 240
 67 tgtaccttat tgcggtgtca tcgtaaaacc aagatgctta aaagggatta ggccactta 300
 69 aattactgcg aaaaatttta ttacaaaatt tctcacatga cttccagata aactaattaa 360
 71 ctttgtgtgt caaggttgct tttccggcag aaaagtcaat ttgcaagtga tttaggtttt 420
 73 ttttaagtact atctttgcaa ttgaattggg tactattaga tattgaatat accaatattg 480
 75 aggtataata caaatacaac aacatttgac ctcggcaact atcagaagta catgtaggtc 540

RAW SEQUENCE LISTING

DATE: 05/19/2006

PATENT APPLICATION: US/10/562,843

TIME: 12:07:19

Input Set : A:\138-05 Seq Listing.txt

Output Set: N:\CRF4\05192006\J562843.raw

```

77 gggaacatta gggaattctg cgcgataagt tactaattat gctaagctat cgcagaacct 600
79 cattaagact tgagctgcag tgttttgcag gtacttatca tatttacagt attaattgtat 660
81 gcagtattat attaattcta aataagaaag tcaggagaag gatattcaaa actgaagaat 720
83 taatgtacat tagttttgtt tattagattt tcaatattgc agcatagaat atgtgtaagt 780
85 agtggagagc taaacgcgct tttcagaacg ttcattgctaa ttgctcatgg atctcacagg 840
87 aacagggtggg ggcggccctc ggtgcgctcg tactgctcca cgatgggtgta gtcctcggtg 900
89 tgggagggtga tgtccagcct ggcgtccacg tagtagtagc cgggcagctg cacgggcttc 960
91 ttggccatgt agatggactt gaactccacc aggtagtggc cgccgtcctt cagcttcagg 1020
93 gccttgtggg tctcgccctt cagcacgccc tcgcgggggt acaggcgctc ggtggaggcc 1080
95 tcccagccca tggctctctt ctgcatcacg gggccgtcgg aggggaagtt cacgcccgtg 1140
97 aacttcacct tgtagatgaa gcagccgtcc tgcaggaggg agtccctgggt cacggctgcc 1200
99 acgcccgcgt cctcgaagtt catcacgcgc tcccacttga agccctcggg gaaggacagc 1260
101 ttcttgtagt cggggatgtc ggcgggggtgc ttcaggtaca ccttggagcc gtactggaac 1320
103 tgggggggaca ggatgtccca ggcgaagggc agggggccgc ccttgggtcac cttcagcttc 1380
105 acggtgttgt ggcctcgtta gggggcggccc tcgcccctgc cctcgatctc gaactcgtgg 1440
107 cgtttcacgg tgccctccat gcgcaccttg aagcgcatga actcgggtgat gacgttctcg 1500
109 gaggaggcca ttctagccat tttggttcta gatccgggggt ctctggatta gacgactgct 1560
111 ggctgatgga gcggttttgt gtcggggagga gtatccacac agcacaagaa ctcaaacggt 1620
113 agtgatatga aaactggtcc cgcagcccgt tttataaagc ccgcttagcg ctaaaacctt 1680
115 atcagccgca atgctctccg ctctcaagtc gcgttcaaaa cttttaccat atatgggtat 1740
117 gaattgttcg ccgattgggt tttcatttac ggagaatttc ctccgcaact ggggtgttcgt 1800
120 gcttgtgtgt gtcttgtata tcgccatgaa gagtgtaact ccatgggtcc tatcagttgc 1860
122 ggcatgtgat tcaatttggg ggttactcat attcgatact tcagctgggt atctttatgc 1920
124 tgtgatggtc acggtgcttt tacacatttt ttccccaact actcattgta tgccaaaaca 1980
126 tacatatgta catgtgttta tagtgggttt attagtaatg tccagcgata ttaaaacatt 2040
128 acagttaa atatttcata ttagcttacg tttactgcta tctgcacttc aaattggtta 2100
130 ttcagggaca tttgtgcaac acacatcttc tagtaggggc atcactagtc gtagaaaaca 2160
132 cacctaactt aagccggttt taacaataac ggcgaacag ctgccagacg agagaaaagt 2220
134 acacagcaag aagcatttct ataagtatgc cgtcctaaat atgcagcatt tttgctcaaa 2280
136 ttgatcattt cggtgcatcg ctccagggtg atagtatttg gctattgaaat gtgattgcta 2340
138 tcttaatagt tttgaatagt aatagtcaa atattcattc ataaaaaata ggtaatcgat 2400
140 tttctcagtg cagtctatgc gtttgcgcaa acaggagacg aagagagaga cgctcacac 2460
142 acaagcacat gcgtactacg ctggcctact ccgctactct atgtgtcgtc ctctgcatcg 2520
144 tctgcttggc ggcagttctt ccagaggctg tgacgtcagg taagctattt cgtctcgggtg 2580
146 tgctgttagc ccgtaacgat aagctgtccg attcctaatt ctctttcaaa taatttgttt 2640
148 tatttttttt tttgtgtgtt ttgaagtcaa acagcttcat aaacaatatt aaatatcgca 2700
150 attgttattg caaatgcatt cgtatcaggc gccttgatgt ttttcggcca aaacttcgtc 2760
152 tgctctttgt cagcgttaatt gcggttgccg gtcgtgccgt cttgctcgca cgcgcttgca 2820
154 aacaaaaagt gaaagaggga aagccactgt gttgttgctt ttgttgctat cgttggctgc 2880
156 acacacatgg caataagtaa ccatattgta gacttattta ttttagcggt ttcggtgact 2940
158 aatctttgtt taaataattg cctatttcga gccaaaatga cgcataaagg acacggcaac 3000
160 atgcggtgcg ttgagcatgc gtacgagatg gcgctagaga gagcgagata aaaagaaaaa 3060
162 aacaaccggc gagtggcgag acacgaataa tacacacacg cacacatggt caaaggagtg 3120
164 gctccaacgt cggtagcgtc gcgcccagcc acagaccccc ccacgccccg cccaccctt 3180
166 ccttcgctg ccccgacccc ctttccttcc actaccgttt tgccgcattt ggtattgcca 3240
168 tctcgctttt ttggctttac tttgcttttt gaataagcca agaaaactgaa atcaaagcgg 3300
170 acagtcggaa aattgaaact attccaaaaa acaacaaccg cacatgcact gcgttcggca 3360
172 aaagacgcag aaatcagcct gtggtctggc atcatcttaa aatatcatca gtatcatcat 3420
174 tgccattata aatacataag aaaatgagaa tacattaaag gtatatacat acaatctttg 3480

```

RAW SEQUENCE LISTING

DATE: 05/19/2006

PATENT APPLICATION: US/10/562,843

TIME: 12:07:19

Input Set : A:\138-05 Seq Listing.txt

Output Set: N:\CRF4\05192006\J562843.raw

```

176 tcatagtcaa catattttgc aacaaaatta tctatagata acatgttttt gtagaaaatt 3540
178 ccactaactg attttcgtat aaatacaaat tattctcatt cttcaaaata ctgcgcgacg 3600
180 tcatcgcgaa attcctcagc attcttcgac aaatgaagag agacagcgag tgacacaatc 3660
182 ttatcttacc gacgagtctt tgaaaatggc cccgggaacg gtgaaaaaca tatagccaag 3720
184 aatggagcga tcgccaggcg atggaaattg gcttcaaatt gctccgaata tggccagttg 3780
186 gtcagttggc attggattgt ggagagatac tagatcagct cgttctcctt ctctcccgca 3840
188 ttctctact cgcccgaaga cgcttctttg atcgcttctt tctcgaaatgt acatattgat 3900
190 atgtattttg tgtttggcga cgatcagcca gctttaatgg ccataaaacg tgtcttggtt 3960
192 tgtgggccac ataacaggca gcgagatctg gaaaaatgat gtgacagtgg aaatgagaag 4020
194 taggtgcac tgcaaagatt tgattcagag ttgatgccat tcatgatttt ttttagaagt 4080
196 atcatttgtg tttttagaat atagaattct agtatgtatg taagttaata aaacccattt 4140
198 ttgcggaag tagataaaaa aaacattttt tttttttact gcaactggata tctgcgccg 4200
200 gccagtttaa ccctagaaag ataatacatat tgtgacgtac gttaaagata atcatgcgta 4260
202 aaattgacgc atgggtacca gatattccagt gcagtaaaaa aaaaaaatgt tttttttatc 4320
204 tactttccgc aaaaatgggt tttattaact tacatacata ctagaattct aaaaaaatc 4380
206 atgaatggca tcaactctga atcaaatctt tgcagatgca cctacttctc atttccactg 4440
208 tcacatcatt tttccagatc tcgctgcctg ttatgtggcc cacaaaccaa gacacgtttt 4500
210 atggccatta aagctggctg atcgtcgcca aacaccaa atcatatcaat atgtacattc 4560
212 gagaaagag cgatcaaaga agcgtcttcg ggcgagtagg agaatgcgga ggagaaggag 4620
214 aacgagctga tctagtatct ctccacaatc caatgccaa tgaccaactg gccatattcg 4680
216 gagcaatttg aagccaattt ccacgcctg gcgacgctc cattcttggc tatatgtttt 4740
218 tcaccgttcc cggggccatt ttcaaagact cgtcggtaag ataagattgt gtcactcgct 4800
220 gtctctcttc atttgtcgaa gaatgctgag gaatttcgag atgacgctcg cgagtatttt 4860
222 gaagaatgag aataatttgt atttatacga aaatcagtta gtggaatttt ctacaaaaac 4920
224 atgttatcta tagataattt tgttgcaaaa tatgttgact atgacaaaaga ttgtatgtat 4980
226 atacctttaa tgtattctca ttttcttatg tatttataat ggcaatgatg atactgatga 5040
228 tattttaaga tgatgccaga ccacaggctg atttctgcgt cttttgccga acgagtgca 5100
230 tgtgcggttg ttgttttttg gaatagtttc aattttcgga ctgtccgctt tgatttcagt 5160
232 ttcttggctt attcaaaaag caaagtaaag caaaaaaagc gagatggcaa taccaaatgc 5220
234 ggcaaaacgg tagtggaagg aaaggggtgc ggggcagcgg aagggaagggt ggggcggggc 5280
236 gtggcggggt ctgtggctgg gcgcgacgtc accgacgttg gagccactcc tttgaccatg 5340
238 tgtgcgtgtg tgtattatct gtgtctcgcc actcgccggt tgtttttttc ttttatctc 5400
240 gctctctcta gcgccatctc gtacgcatgc tcaacgcacc gcatgttgcc gtgtccttta 5460
242 tgcgtcattt tggctcgaaa taggcaatta tttaaacaaa gattagtcaa cgaaaacgct 5520
244 aaaataaata agtctacaat atggttactt attgccatgt gtgtgcagcc aacgatagca 5580
246 acaaaagcaa caacacagtg gctttccctc tttcactttt tgtttgcaag cgcgtgcgag 5640
249 caagacggca cgaccggcaa acgcaattac gctgacaaag agcagacgaa gttttggccg 5700
251 aaaaacatca aggcgcctga tacgaatgca tttgcaataa caattgcgat atttaatat 5760
253 gtttatgaag ctgtttgact tcaaaacaca caaaaaaaa aataaaacaa attatttgaa 5820
255 agagaattag gaatcggaca gcttatcgtt acgggctaac agcacaccga gacgaaatag 5880
257 cttacctgac gtcacagcct ctggaagaac tgccgccaaag cagacgatgc agaggacgac 5940
259 acatagagta gcggagtagg ccagcgtagt acgcatgtgc ttgtgtgtga ggcgtctctc 6000
261 tcttcgtctc ctgtttgcgc aaacgcatag actgcactga gaaaatcgat tacctatttt 6060
263 ttatgaatga atatttgcac tattactatt caaaactatt aagatagcaa tcacattcaa 6120
265 tagccaaata ctataccacc tgagcgatgc aacgaaatga tcaatttgag caaaaatgct 6180
267 gcataattag gacggcatca ttatagaaat gcttcttgct gtgtactttt ctctcgctg 6240
269 cgagctgttt cgccgttatt gttaaaacgg gcttaagtta ggtgtgtttt ctacgactag 6300
271 tgatgccctt actagaagat gtgtgttgca caaatgtccc tgaataacca atttgaagt 6360
273 cagatagcag taaacgtaag ctaatatgaa tattatttaa ctgtaatgtt ttaatatcgc 6420

```

RAW SEQUENCE LISTING

DATE: 05/19/2006

PATENT APPLICATION: US/10/562,843

TIME: 12:07:19

Input Set : A:\138-05 Seq Listing.txt

Output Set: N:\CRF4\05192006\J562843.raw

275	tggacattac	taataaacc	actataaaca	catgtacata	tgtatgtttt	ggcatacaat	6480
277	gagtagttgg	ggaaaaaatg	tgtaaaagca	ccgtgaccat	cacagcataa	agataaccag	6540
279	ctgaagtatc	gaatatgagt	aacccccaaa	ttgaatcaca	tgccgcaact	gataggaccc	6600
281	atggaagtac	actcttcatg	gcgatataca	agacacacac	aagcacgaac	accagttgc	6660
283	ggaggaaatt	ctccgtaaat	gaaaacccaa	tcggcggaaca	attcataccc	atatatggta	6720
285	aaagttttga	acgcgacttg	agagcggaga	gcattgcggc	tgataagggt	ttagcgctaa	6780
287	gcgggcttta	taaaacgggc	tcggggacca	gttttcatat	cactaccgtt	tgagttcttg	6840
289	tgctgtgtgg	atactcctcc	cgacacaaag	ccgtcccatc	agccagcagt	cgtctaatacc	6900
291	agagaccccg	gatctagaac	caaaatggct	agcaaaggag	aagaactttt	cactggagtt	6960
293	gtcccaattc	ttgttgaaat	agatggtgat	gttaatgggc	acaaattttc	tgctcagtga	7020
295	gaggggtgaag	gtgatgcaac	atacggaaaa	cttaccctta	aattttattg	cactactgga	7080
297	aaactacctg	ttccatggcc	aacacttgtc	actactttca	cttatgggtg	tcaatgcttt	7140
299	tcaagatacc	cagatcatat	gaaacagcat	gactttttca	agagtgccat	gcccgaagg	7200
301	tatgtacagg	aaagaactat	atttttcaaa	gatgacggga	actacaagac	acgtgctgaa	7260
303	gtcaagtttg	aagggtgatac	ccttggttaat	agaatcgagt	taaaagggtat	tgattttaaa	7320
305	gaagatggaa	acattccttg	acacaaattg	gaatacaact	ataactcaca	caatgtatac	7380
307	atcatggcag	acaaacaaaa	gaatggaatc	aaagttaact	tcaaaattag	acacaacatt	7440
309	gaagatggaa	gcgttcaact	agcagaccat	tatcaacaaa	atactccaat	tgccgatggc	7500
311	cctgtcctct	taccagacaa	ccattacctg	tccacacaat	ctgccctttc	gaaagatccc	7560
313	aacgaaaaga	gagaccacat	ggtccttctt	gagtttgtaa	cagctgctgg	gattacacat	7620
315	ggcatggatg	aactatacaa	ataaggatcc	atgagcaatt	agcatgaacg	ttctgaaaag	7680
317	cgcgtttagc	tctccactac	ttacacatat	tctatgctgc	aataattgaaa	atctaataaa	7740
319	caaaaactaat	gtacattaat	tcttcagttt	tgaatatcct	tctcctgact	ttcttattta	7800
321	gaattaatat	aataactgcat	acattaatac	tgtaaataatg	ataagtacct	gcaaaacact	7860
323	gcagctcaag	tcttaatgag	gttctgcgat	agcttagcat	aattagtaac	ttatcgcgca	7920
325	gaattcccta	atgttcccgga	cctacatgta	cttctgatag	ttgccgaggt	caaatgttgt	7980
327	tgtatttgta	ttatacctca	atattgggtat	attcaatatc	taatagtacc	caattcaatt	8040
329	gcaaagatag	tcattaaaaa	aacctaaatc	acttgcaaat	tgacttttct	gccggaaaaag	8100
331	caaccttgac	acacaaagtt	aattagttta	tctggaagtc	atgtgagaaa	tttgtaataa	8160
333	aaatttttcg	cagtaattta	agtgggccta	atccctttta	agcatccttg	ttttacgatg	8220
335	acaccgcaat	aagggtacaac	tttatattgt	ttttgcaatc	agcttgagtc	tttattaggc	8280
337	atcagtcctt	ctctctaagt	ttcttcgtgc	aataaatgag	gttccaaact	ccgtagattt	8340
339	ttccttcttt	gttgaatcca	gatcctgcaa	agaaaaaaga	gcaaaccctc	aggtctgtcc	8400
341	aggaatgtat	tttcgtgttt	gtcgatcgac	catggtcacc	ggtagatata	tataacaaga	8460
343	aaatatatat	ataataagtt	atcacgtaag	tagaacatga	aataacaata	taattatcgt	8520
345	atgagttaaa	tcttaaaagt	cacgtaaaag	ataatcatgc	gtcattttga	ctcacgcggt	8580
347	cgttatagtt	caaaatcagt	gacacttacc	gcattgacaa	gcacgcctca	cgggagctcc	8640
349	aagcggcgac	tgagatgtcc	taaatgcaca	gcgacggatt	cgcgctattt	agaaagagag	8700
351	agcaatattt	caagaatgca	tcggtcaatt	ttacgcagac	tatctttcta	gggttaagtc	8760
353	gacatccaca	ttgtggccaa	gctgtgtgac	gcgacgcgcg	ctaaagaatg	gcaaaccaag	8820
355	tcgcgcgagc	gtcgaaattc	gtaatcatgg	tcatagctgt	ttcctgtgtg	aaattgttat	8880
357	ccgctcacaa	ttccacacaa	catacgagcc	ggaagcataa	agtgtaaagc	ctgggggtgc	8940
359	taatgagtga	gctaactcac	attaattgcg	ttgcgctcac	tgcccgcctt	ccagtcggga	9000
361	aacctgtcgt	gccagctgca	ttaatgaatc	ggccaacgcg	cggggagagg	cggtttgcgt	9060
363	attgggcgct	cttcgccttc	ctcgcctact	gactcgctgc	gctcggctcg	tcggctgcgg	9120
365	cgagcgggat	cagctcactc	aaaggcggta	atcgggttat	ccacagaatc	aggggataac	9180
367	gcaggaaaaga	acatgtgagc	aaaaggccag	caaaaggcca	ggaaccgtaa	aaaggccgcg	9240
369	ttgctggcgt	ttttccatag	gctccgcccc	cctgacgagc	atcacaaaaa	tcgacgctca	9300
371	agtcagaggt	ggcgaaaacc	gacaggacta	taaagatacc	aggcgtttcc	ccctggaagc	9360

RAW SEQUENCE LISTING

DATE: 05/19/2006

PATENT APPLICATION: US/10/562,843

TIME: 12:07:19

Input Set : A:\138-05 Seq Listing.txt

Output Set: N:\CRF4\05192006\J562843.raw

```

373 tccctcgtgc gctctcctgt tccgacctg ccgcttaccg gatacctgtc cgcctttctc 9420
375 ccttcgggaa gcgtggcgct ttctcaatgc tcacgctgta ggtatctcag ttcggtgtag 9480
378 gtcgttcgct ccaagctggg ctgtgtgcac gaaccccccg ttcagcccga ccgctgcgcc 9540
380 ttatccggta actatcgtct tgagtccaac ccggtaagac acgacttatc gccactggca 9600
382 gcagccactg gtaacaggat tagcagagcg aggtatgtag gcggtgctac agagtctctg 9660
384 aagtgggtggc ctaactacgg ctacactaga aggacagtat ttggtatctg cgctctgctg 9720
386 aagccagtta ccttcggaaa aagagttggt agctcttgat cgggcaaaaa aaccaccgct 9780
388 ggtagcggtg gtttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa 9840
390 gaagatcctt tgatcttttc tacggggtct gacgctcagt ggaacgaaaa ctcacgttaa 9900
392 gggattttgg tcatgagatt atcaaaaagg atcttcacct agatcctttt aaattaaaaa 9960
394 tgaagtttta aatcaatcta aagtatatat gagtaaactt ggtctgacag ttaccaatgc 10020
396 ttaatcagtg aggcacctat ctacgcgac tgtctatttc gttcatccat agttgcctga 10080
398 ctccccgtcg tgtagataac tacgataacg gagggcttac catctggccc cagtgtgca 10140
400 atgataccgc gagaccacgc ctacccggct ccagatttat cagcaataaa ccagccagcc 10200
402 ggaaggggcg agcgcagaag tggctctgca actttatccg cctccatcca gtctattaat 10260
404 tgttgccggg aagctagagt aagtagttcg ccagttaata gtttgcgcaa cgttggtgcc 10320
406 attgctacag gcatcgtggg gtcacgctcg tcgtttggta tggcttcatt cagctccggg 10380
408 tcccaacgat caaggcgagt tacatgatcc cccatgttgt gcaaaaaaagc ggttagctcc 10440
410 ttcggctctc cgatcgttgt cagaagtaag ttggccgcag tgttatcact catggttatg 10500
412 gcagcactgc ataattctct tactgtcatg ccatccgtaa gatgcttttc tgtgactggg 10560
414 gagtactcaa ccaagtcatt ctgagaatag tgtatgcggc gaccgagttg ctcttgccc 10620
416 gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgtc catcattgga 10680
418 aaacgttctt cggggcgaaa actctcaagg atcttaccgc tgttgagatc cagttcgatg 10740
420 taacccactc gtgcacccaa ctgatcttca gcatctttta ctttcaccag cgtttctggg 10800
422 tgagcaaaaa caggaaggca aaatgccgca aaaaagggaa taagggcgac acggaaatgt 10860
424 tgaatactca tactcttctt ttttcaatat tattgaagca tttatcaggg ttattgtctc 10920
426 atgagcggat acatatttga atgtatttag aaaaataaac aaataggggt tccgcgcaca 10980
428 tttccccgaa aagtgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat 11040
430 aaaaataggc gtatcacgag gccctttcgt ctgcgcggtt tcggtgatga cggtgaaaa 11100
432 ctctgacaca tgcagctccc ggagcgggtc acagcttgct tgtaagcgga tgcgggagc 11160
434 agacaagccc gtcagggcg ctcacgcggt gttggcggtt gtcggggctg gcttaactat 11220
436 gcggcatcag agcagattgt actgagagtg caccatataat gcggtgtgaa ataccgcaca 11280
438 gatgcgtaag gagaaaaata cgcacaggg gccattcgcc attcaggctg cgcaactgtt 11340
440 gggaaggggc atcggtgagg gccctcttcg tattacgcca gctggcgaaa gggggatgtg 11400
442 ctgcaaggcg attaagttgg gtaacgccag ggttttccca gtcacgacgt tgtaaaacga 11460
444 cggccagtgc caagctttgt ttaaaatata acaaaattgt gatccacaa aatgaagtgg 11520
446 ggcaaaatca aataattaat agtgtccgta aacttggttg tcttcaactt tttgaggaa 11580
448 acgttgagcg gcaaatccgt gactataaca caagtgtatt taataatttt agccaacacg 11640
450 tcgggctgcg tgttttttgc cgacgcgtct gtgtacacgt tgattaactg gtcgattaaa 11700
452 ctggtgaaat aatttaattt ttggttcttc tttaaatctg tgatgaaatt ttttaaaata 11760
454 actttaaatt cttcattggg aaaaaatgcc acgttttgca acttgtagag gtctaataatg 11820
456 aggtcaaaact cagtaggagt tttatccaaa aaagaaaaca tgattacgtc tgtacacgaa 11880
458 cgcgtattaa cgcagagtgc aaagtataag agggttaaaa aatatatttt acgcaccata 11940
460 tacgcatcgg gttgatatcg ttaatatgga tcaatttgaa cagttgatta acgtgtctct 12000
462 gctcaagtc ttgatcaaaa cgcaaatcga cgaaaatgtg tcggacaata tcaagtcgat 12060
464 gagcgaaaaa ctaaaaaggc tagaatacga caatctcaca gacagcgttg agatatacgg 12120
466 tattcacgac agcaggctga ataataaaaa aattagaaac tattatttaa ccctagaaag 12180
468 ataatacatat tgtgacgtac gttaaagata atcatgcgta aaattgacgc atgtgtttta 12240
470 tcggtctgta tatcgaggtt tatttattaa tttgaataga tattaagttt tattatattt 12300

```

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 05/19/2006

PATENT APPLICATION: US/10/562,843

TIME: 12:07:20

Input Set : A:\138-05 Seq Listing.txt

Output Set: N:\CRF4\05192006\J562843.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; N Pos. 2,9

VERIFICATION SUMMARY

DATE: 05/19/2006

PATENT APPLICATION: US/10/562,843

TIME: 12:07:20

Input Set : A:\138-05 Seq Listing.txt

Output Set: N:\CRF4\05192006\J562843.raw

L:1375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0